	Application No.	Applicant(s)
Notice of Allowability E	10/530,548	ONOZAKI ET AL.
	Examiner	Art Unit
	 K ² Ot	1700
	Kiley Stoner	1793
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu GHTS. This application is s	this application. If not included inication will be mailed in due course. THIS
1. This communication is responsive to <u>9/24/07</u> .		
2. The allowed claim(s) is/are 1,2,4-8 and 17.		
3. ☑ Acknowledgment is made of a claim for foreign priority una) ☑ All b) ☐ Some* c) ☐ None of the:		or (f).
1. Certified copies of the priority documents have		- No
2. Copies of the partified copies of the priority documents have	• •	
 Copies of the certified copies of the priority doc International Bureau (PCT Rule 17.2(a)). 	cuments have been received	in this national stage application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	ENT of this application. itted. Note the attached EXA	MINER'S AMENDMENT or NOTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus		
(a) ☐ including changes required by the Notice of Draftspers		(PTO-948) attached
1) hereto or 2) to Paper No./Mail Date		(
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		in the Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I	sit of BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the DLOGICAL MATERIAL.
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Inf	formal Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413),
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date		Paper No./Mail Date <u>12/4/07</u> . 7. ⊠ Examiner's Amendment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's	Statement of Reasons for Allowance
	9. 🗌 Other	_
		Kiley Stoner A41793 Kily Stone 12/4/07

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DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with William E. Lyddane on 12/4/07.

The application has been amended as follows:

Non-elected claims 9-16 have been canceled.

Allowable Subject Matter

Claims 1-2, 4-8 and 17 are allowed.

The following is an examiner's statement of reasons for allowance: Zakel (US 6,070,788) is the closest prior art of record. Zakel teaches positioning a substrate, having a metal film on a surface, with the surface facing up in a liquid which is heated to be hotter than a melting point of the solder; and dropping solder fine particles toward the substrate (Figures 3a-3c; and column 5, lines 35-64). However, Zakel does not teach or suggest either alone or in combination with any other piece of prior art, dropping solder fine particles toward the substrate so that particles having a predetermined size reach the substrate when the falling speeds of the solder fine particles are within a specific

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time period, the specific time period being defined to exclude solder fine particles both larger and smaller than the predetermined size.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kiley Stoner whose telephone number is 571-272-1183. The examiner can normally be reached Monday-Thursday (9:30 a.m. to 8:00 p.m.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jonathan Johnson can be reached on 571-272-1177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kiley Stoner

Primary Examiner A.U. 1793